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PRODUCE GENERATORS, MOTORS, TRANSFORMERS,  
 AND ELECTRICAL EQUIPMENT FOR CONSTRUCTION PROJECTS

CITE ACHIEVEMENTS OF ELEKTROSILA PLANT Moscow, Izvestiya, 24 Apr 51

The State Planning Committee and the Central Statistical Administration USSR have reported that 1950 output of electrical equipment was three times that of 1940.

The Leningrad Elektrosila Plant imeni S. M. Kirov built two thirds of the generators put into operation under GREIRO (State Commission for the Electrification of Russia). This plant has become the largest enterprise making complex electric drives and electric machines complete with all control and protective equipment. The 1950 production of electrical equipment at this plant was almost 7.5 times as high as that of 1946. The volume of equipment output with respect to over-all output of the enterprise has almost doubled.

The plant exceeded the plans for gross and commodity production for the 5-year period 1946-1950 by more than 20 percent. It exceeded its Five-Year Plan not only in the level of production scheduled for 1950, but also in the volume of production planned for the 5-year period.

Last year the plant organized the production of a series of hydrogen-cooled turbogenerators with capacities of from 25 to 100 kilowatts. These generators have an improved lubricating system which increases their efficiency. The plant has developed plans for a super-power, hydrogen-cooled turbogenerator that will rotate at a speed of 3,000 revolutions per minute.

Electric power generators built by the plant for the DneprGES have worked uninterruptedly and faultlessly from the moment they were put into operation. Generators made by the General Electric Company were set up alongside those made by the Elektrosila Plant. The thrust bearings on the US machines soon went out of order. Now all the generators at the DneprGES have been fitted with thrust bearings made by the Elektrosila Plant.

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The first generator the plant built for the DneprGES in 1948 took almost 10 months to construct, while the sixth and final generator, built in 1950, took only 4 months.

Last year, the plant built an umbrella-shaped hydrogenerator for the Upper Svir GES. The thrust bearing and the weight-supporting lower cross-head have been made considerably lighter as compared with former hydrogenerators. Approximately 60 tons of metal were saved on one generator.

Using plans developed by the Direct Current Machinery Design Bureau, the plant has organized the production of 2,000-kilowatt generators, which rotate at a speed of 1,000 revolutions per minute. Labor consumption of the machines was lowered 30-35 percent, and their weight was cut in half.

The Hydrogenerator Design Bureau, headed by A. Yeremeyev, Stalin Prize winner, and under the leadership of N. Ivanov, Chief Designer of the plant and Stalin Prize winner, has worked out several alternate drafts of hydrogenerators projected for the Kuybyshev GES. These unique machines will be  $1\frac{1}{2}$  times as large as the generators of the Shcherbakov GES, which are the largest in the world, and twice as large as the largest built by capitalist firms. The hydroelectric projects should receive dozens of these machines in the coming 3-4 months.

In the first quarter of 1951, the output of turbogenerators at the Elektrosila Plant increased 2.4 times as compared with the first quarter of 1950, while hydrogenerator output increased 60 percent.

The plant has been commissioned to build three new-type, high-power umbrella-shaped generators for the Tsimlyansk GES during 1951. The design for the generator has already been completed. The thrust bearing will be installed on top of the turbine, thus reducing the height of the aggregate and the GES building.

The workers of the Elektrosila Plant have promised to build as many hydrogenerators in the first 4 months of 1951 as they did in all of 1950, and to complete the first 40,000-kilowatt hydrogenerator for the Tsimlyansk GES in May 1951.

Frunze, Sovetskaya Kirgiziya, 12 Apr 51

After engineers of the Leningrad Elektrosila Plant criticized inefficient methods of lining bearing bushings used at the Leningrad Elektrik Plant, P. K. Laposhko, engineer-technologist of the Elektrik Plant visited the Elektrosila Plant to study machine pouring of bushings. Laposhko then constructed an improved bushing pouring machine which tripled labor productivity, improved the quality of the bushings, and saved babbitt.

ELEKTROSILA PLANT SHIPS MOTORS, GENERATORS TO PROJECTS -- Leningradskaya Pravda, 24 Apr 51

The Leningrad Elektrosila Plant imeni S. M. Kirov has shipped four large synchronous motors to the Kuybyshev GES.

Leningradskaya Pravda, 19 May 51

The Leningrad Elektrosila Plant is working on the first hydrogenerator for the Tsimlyansk GES, and on a hydrogenerator for the hydro experimental station of the Kuybyshev GES.

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The rotor for the Tsimlyansk GES generator is half finished, and the upper disk drilled. Yesterday, the rotor was turned over, and drilling of the lower disk has begun. A brigade of drillers has promised to complete drilling operations on the rotor by 21 May. The sections and spokes of the rotor have been machined. Final machining of the hydrogenerator shaft started yesterday. The stamping shop is striving to finish the rotor rim by 25 May, and the insulator shop will have the winding for the Tsimlyansk machine ready by 20 May.

Leningradskaya Pravda, 25 May 51

The Leningrad Elektrosila Plant has finished machining the shaft of the first hydrogenerator for the Tsimlyansk GES and has started machining the shaft for the second hydrogenerator.

Four commutators for large machines for the Kuybyshev GES have been assembled by the large electrical machinery shop. This shop recently sent two commutators for the Tsimlyansk GES exciter to the armature section.

Moscow, Ogonek, 17 Jun 51

The Leningrad Elektrosila Plant has completed the first hydrogenerator for the Tsimlyansk GES. The hydrogenerator, completed in 2½ months, was designed without a lower crosshead, and the thrust bearing was mounted on the roof of the turbine. This saved 109 tons of sheet steel, reduced the height of the aggregate, and reduced the height of the GES building.

The largest unit of the hydrogenerator is the stator, which weighs 103 tons and is 11.5 meters in diameter. Twenty-six railroad cars and flatcars were required to transport it from Leningrad to the construction site.

The Elektrosila Plant will build two more hydrogenerators for the Tsimlyansk GES in the second half of 1951.

BUILD ELECTRIC MOTORS FOR VOLGA-DON CANAL -- Tashkent, Pravda Vostoka, 29 Apr 51

The Uralslektroapparat Plant has begun assembling a fourth electric motor for the pumping transfer stations of the Volga-Don Canal. These 2,500-kilowatt motors weigh 50 tons each.

COMPLETE FIRST CONTROL PANEL FOR CANAL LOCK -- Moscow, Vechernyaya Moskva, 16 May 51

The Moscow Dinamo Plant has completed and tested the first central control panel for the thirteenth lock of the Volga-Don Canal.

SEND TRANSFORMERS TO PROJECTS -- Yerevan, Kommunist, 21 Apr 51

On 3 April 1951, the Baku Electrical Machinery Plant shipped M-50 transformers to the Main Turkmen Canal project.

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Frunze, Sovetskaya Kirgiziya, 23 May 51

The Baku Electrical Machinery Plant has shipped 13 transformers and five large motors to the Main Turkmen Canal, and the Stalingrad, and Kuybyshev projects. The plant has also shipped 14 high-power transformers and five electric motors to the Volga-Don Canal project.

Moscow, Pravda, 31 May 51

The Baku Electrical Machinery Plant shipped new consignments of transformers to the Main Turkmen and South Ukrainian canals during April and May. The plant recently shipped nine transformers to the Volga-Don Canal project.

MOSCOW PLANT PRODUCES MOTORS --- Moscow, Moskovskaya Pravda, 5 Apr 51

The Moscow Electrical Plant imeni Vladimir Il'ich makes electric motors for walking excavators.

Moscow, Moskovskaya Pravda, 20 Apr 51

The Moscow Electrical Plant imeni Vladimir Il'ich has shipped electric motors to the Kuybyshev GES.

Moscow, Trud, 26 Apr 51

Workers of the Moscow Electrical Plant imeni Vladimir Il'ich have agreed to fill the second quarter 1951 order for the new AO-94/4 electric motors in April, 2 months ahead of time.

Workers of the assembly shop have promised to turn out 33 motors over 100 kilowatts and 34 motors under 100 kilowatts above the plan by 1 May.

SHIP ELECTRICAL EQUIPMENT TO PROJECTS --- Frunze, Sovetskaya Kirgiziya, 31 May 51

The Khar'kov Electrical Machinery Plant imeni Stalin has shipped a large consignment of motors to the Kuybyshev GES a month ahead of time. In May, the plant shipped sets of rheostats, explosion-proof motors, and direct current machines to this project.

The Khar'kov plant has completed 13 of the 50 orders it is filling for the Kuybyshev, Stalingrad, and Kakhovka hydroelectric projects and for the Main Turkmen and South Ukrainian canals.

Nineteen different type designations of electrical equipment were shipped to the Volga-Don Canal project, and another carload of equipment is being sent there to complete the half-year order for the project.

RIGA PLANT MAKES EXCAVATOR EQUIPMENT --- Leningradskaya Pravda, 11 May 51

The Riga REZ Electrical-Machine-Building Plant has shipped a second consignment of electrical equipment for walking excavators to the Volga-Don Canal project.

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